



Fourth GAIN World Conference

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Advancing the GAIN Concept

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Current System Data Flow

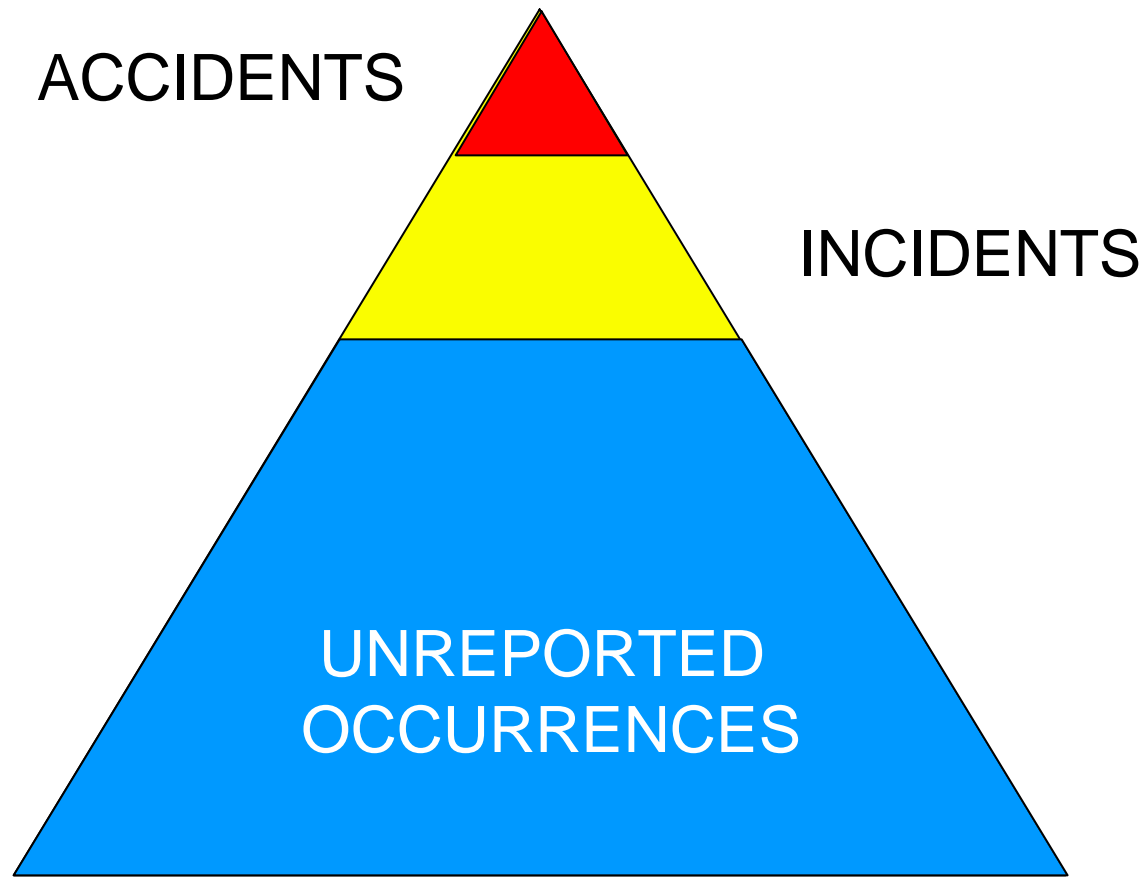


**Almost all Data
is Lost Forever**

**Currently Only a Minute
Portion of Data is
Collected and Analyzed**

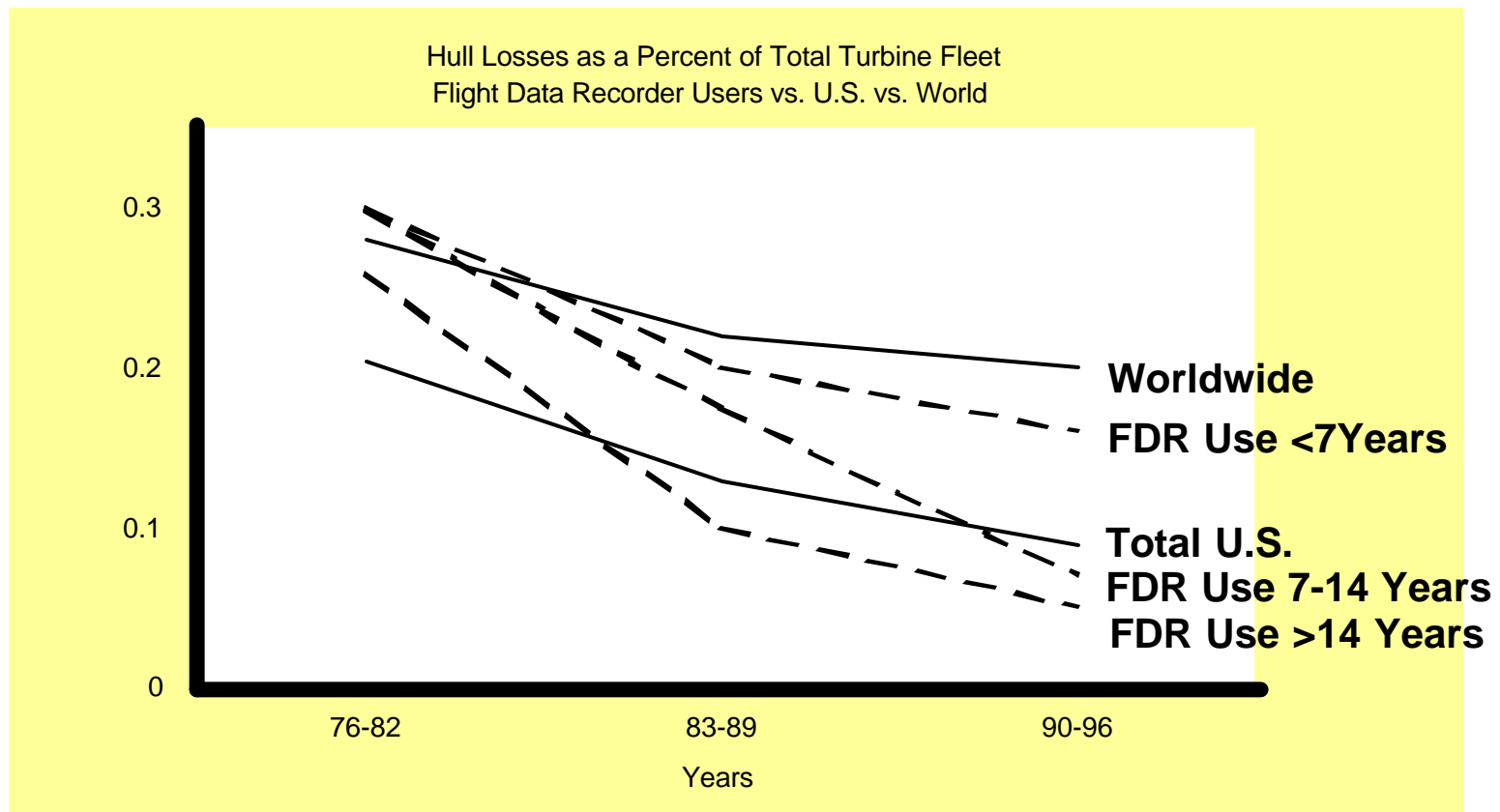


Heinrich Pyramid





Benefits of FDR Use



Sources: Total U.S.- FAA NASDAC
Other - Skandia Insurance Co. Ltd.



Fix the Person or the System?

**Is the Person
Clumsy?**

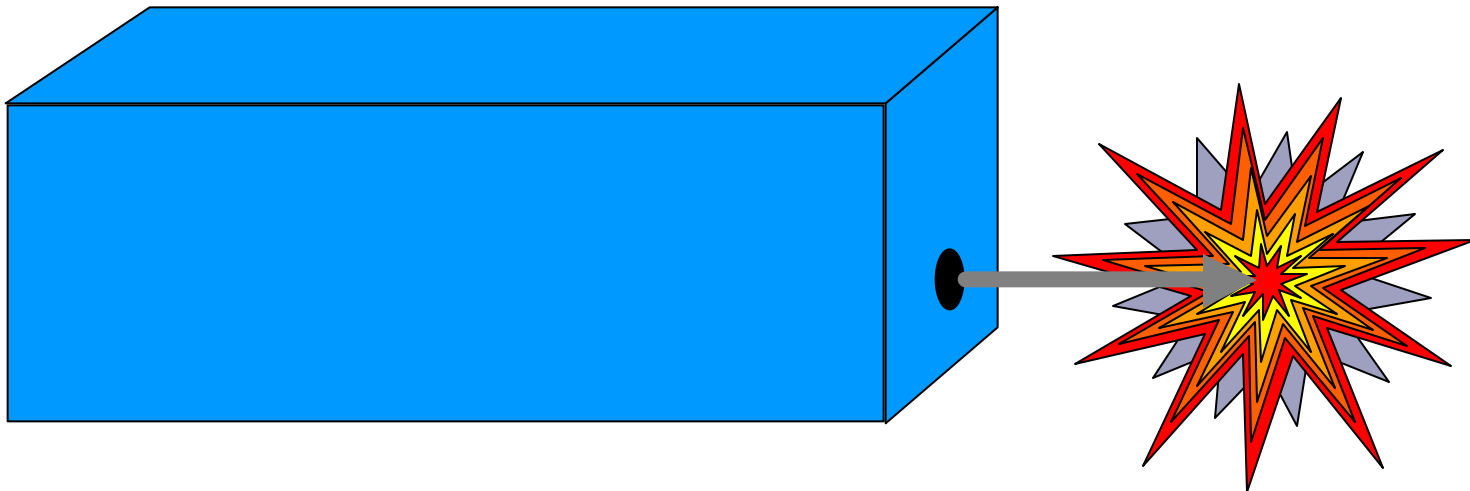
**Or Is the
Problem . . .**

The Step???



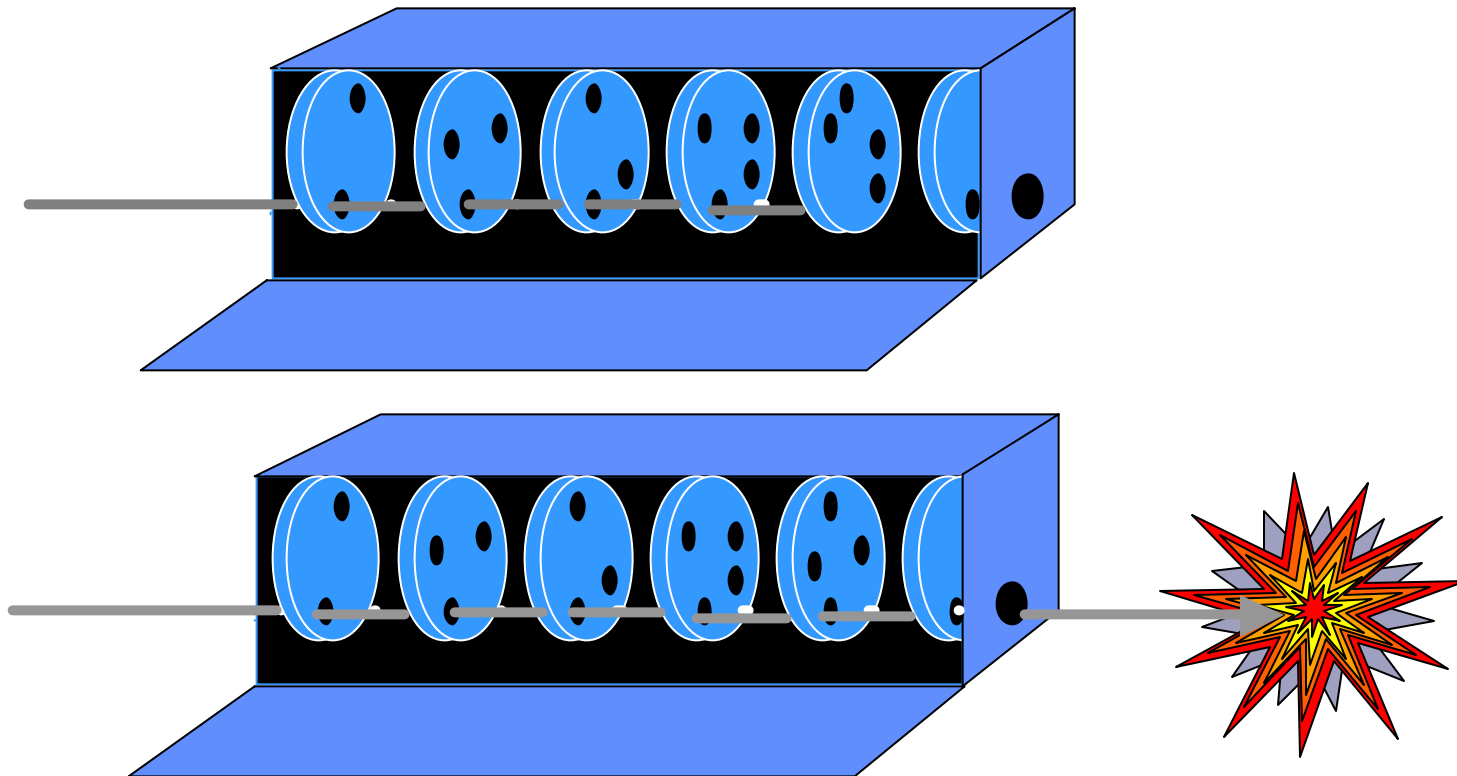


Is This Light Random?



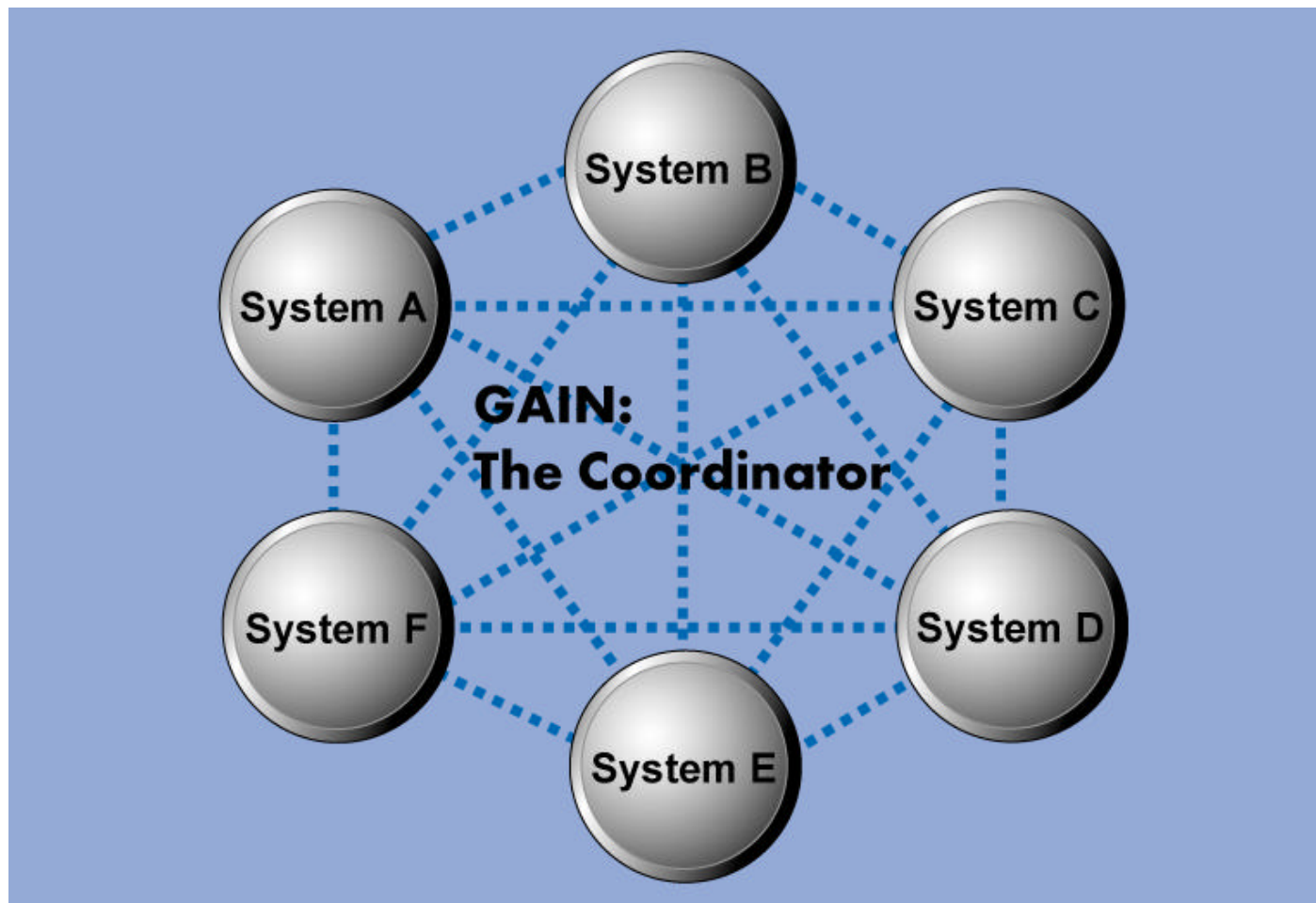


Accidents Result From a Combination of Events





Global Aviation Information Network: The Concept





What is GAIN ?

GAIN Is:

- Evolutionary
- Inclusive and encourages mentoring
- Built on collective needs
- Expanding and enhancing existing systems
- An international cooperative effort

GAIN Is NOT:

- A single centralized database
- A regulatory or enforcement program
- Mandatory
- The sharing of raw data
- A replacement for existing systems
- The single solution for improving aviation safety



Obstacles that Block the Flow of Information

Concerns About

- **Public Disclosure**
- **Job Sanctions/Enforcement**
- **Criminal Sanctions**
- **Civil Litigation**



Removing U.S. Obstacles

- **FAA Reauthorization, 1996**
Prohibits public disclosure of voluntarily provided aviation safety information
- **President Clinton, January 2000**
Announced Aviation Safety Action Programs (ASAP) for voluntary pilot reporting
- **FAA Reauthorization, 2000**
Requires FAA to issue NPRM protecting airlines and their employees from enforcement actions for regulatory violations discovered from voluntary reporting programs



Removing Int'l Obstacles

- **ICAO 32nd Assembly, 1998**
Resolution to improve safety through enhanced collection, analysis and dissemination of safety information
- **ICAO AIG, September '99**
Approved recommendation to Annex 13 that States should establish non-punitive incident reporting systems, promote establishment of safety information sharing networks, and facilitate free exchange of information on potential safety deficiencies



Others Who Are Interested

- **U.S. Transportation Department**
 - Maritime, Rails, Highways, Pipelines
- **Critical Infrastructure Assurance Office (CIAO)**
- **Health Care Industry**



Challenges



Legal Issues

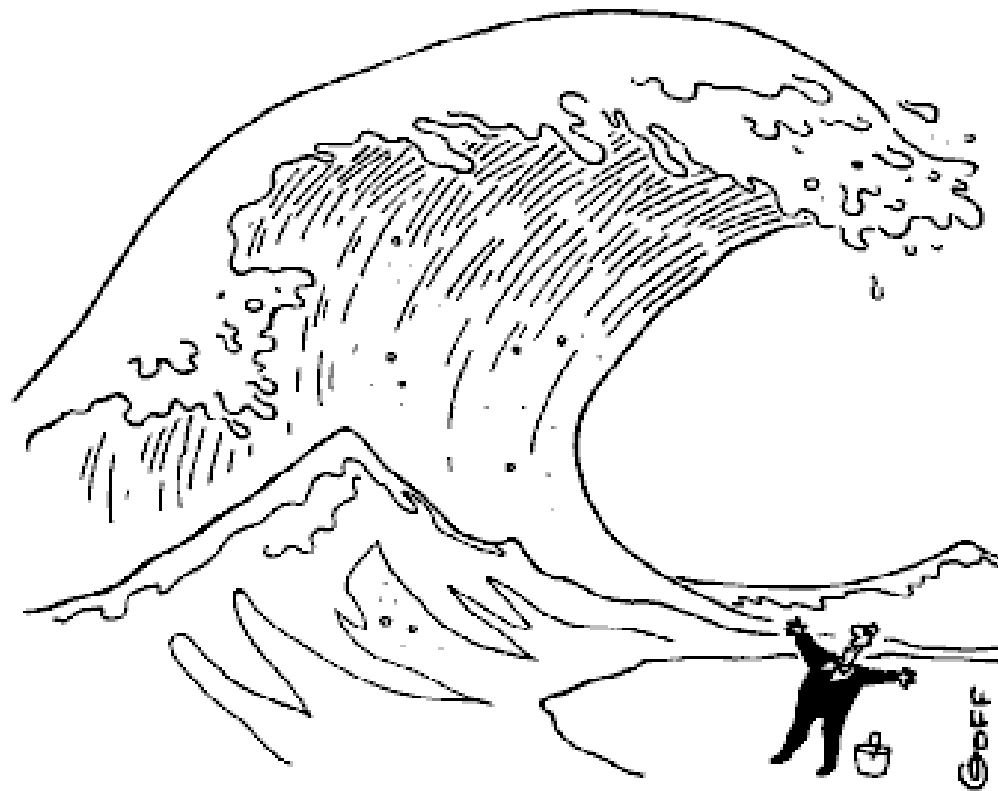
Improved Analytical Tools

As we begin to get over the first hurdle, we must start working on the second.



Information Overload

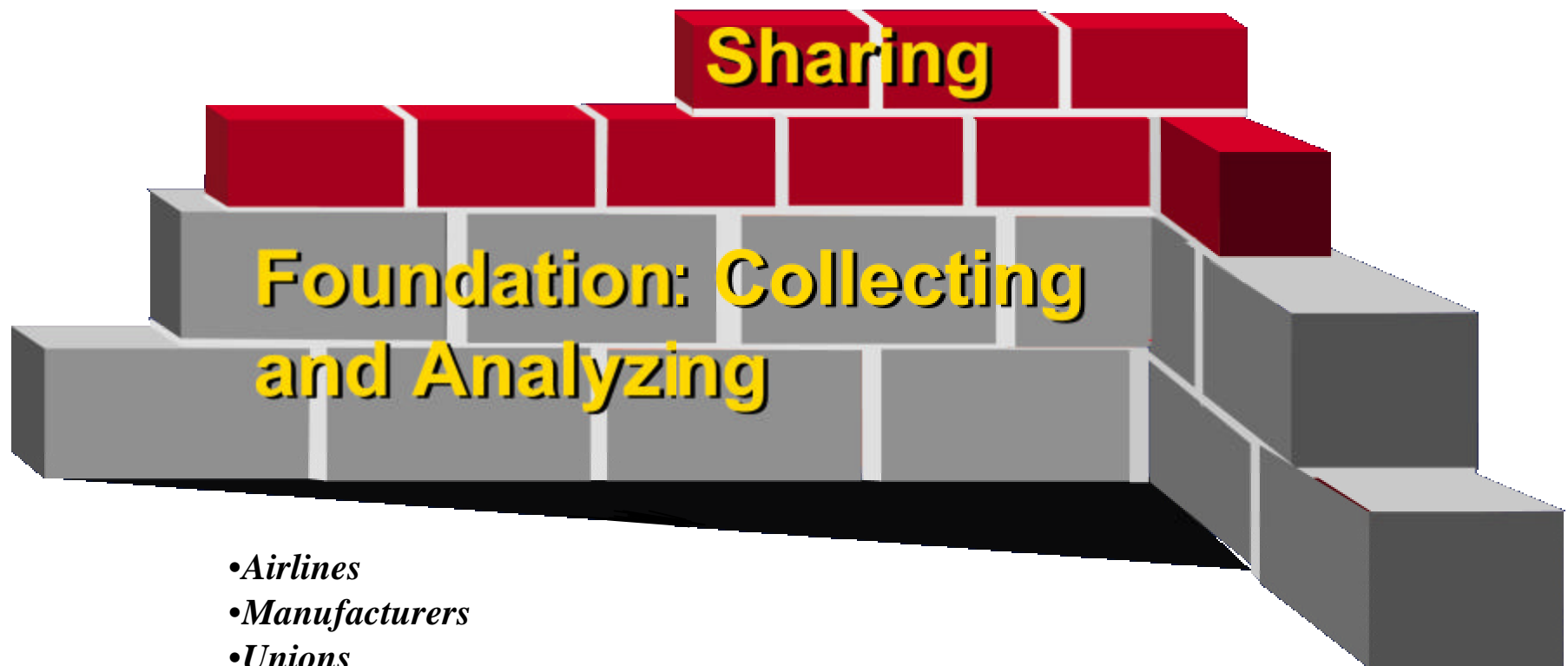
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"EUREKA! MORE INFORMATION!"



Many Have Already Begun The Process



- *Airlines*
- *Manufacturers*
- *Unions*
- *Government*



Three Domains For GAIN





FAA Administrator Jane Garvey:

“GAIN is one of our best hopes
for enhancing aviation safety
in the next century.”

GAIN III World Conference
November 1998